

HiFill® PP GF20 CC

 Techmer Polymer Modifiers - *Polypropylene*
General Information
General

| | |
|------------------------|-------------------------------------|
| Material Status | • Commercial: Active |
| Availability | • North America |
| Filler / Reinforcement | • Glass Fiber, 20% Filler by Weight |
| Features | • Chemically Coupled |
| Processing Method | • Injection Molding |

Properties ¹

| | Nominal Value | Unit | Test Method |
|---|---------------|----------|-------------|
| Physical | | | |
| Density / Specific Gravity | 1.04 | | ASTM D792 |
| Mechanical | | | |
| Tensile Strength | 10000 | psi | ASTM D638 |
| Flexural Modulus | 540000 | psi | ASTM D790 |
| Impact | | | |
| Notched Izod Impact (0.125 in) | 1.3 | ft·lb/in | ASTM D256 |
| Thermal | | | |
| Deflection Temperature Under Load (66 psi, Unannealed) | 314 | °F | ASTM D648 |
| Deflection Temperature Under Load (264 psi, Unannealed) | 285 | °F | ASTM D648 |

Processing Information

| | Nominal Value | Unit |
|------------------------|---------------|------|
| Injection | | |
| Drying Temperature | 180 | °F |
| Drying Time | 1.0 to 2.0 | hr |
| Rear Temperature | 390 to 440 | °F |
| Middle Temperature | 400 to 450 | °F |
| Front Temperature | 410 to 460 | °F |
| Nozzle Temperature | 420 to 440 | °F |
| Processing (Melt) Temp | 390 to 460 | °F |
| Mold Temperature | 80 to 120 | °F |
| Injection Rate | Slow-Moderate | |
| Back Pressure | 50.0 to 150 | psi |
| Screw Speed | Slow-Moderate | |

Notes

¹ Typical properties: these are not to be construed as specifications.

